

CLAIMS:

1. The mixture for under-pressure carburizing employing hydrocarbons is **characterized in that** it contains the carbon carrier in the form of two unsaturated hydrocarbons in the proportion from 0.1 to 2.0, where the said carbon carrier can be further mixed with other components modifying the carburizing process.
2. The mixture for under-pressure carburizing according to claim 1 is **characterized in that** it is beneficial and preferable to have the said hydrocarbons in the proportion of from 0.15 to 2.0.
3. The mixture for under-pressure carburizing according to claim 1 is **characterized in that** it is most beneficial and preferable if the said carbon carrier is a mixture of ethylene and acetylene.

the said carbon carrier should preferably be a mixture of ethylene and acetylene
4. The mixture for under-pressure carburizing according to claim 1 is **characterized in that** the said carbon carrier can be mixed with hydrogen in the proportion from 0.7 to 1.6.
5. The mixture for under-pressure carburizing according to claim 1 is **characterized in that** the said carbon carrier can be mixed with ammonia in the proportion from 0.7 to 5.0.